## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A liquid crystal display apparatus comprising <u>a liquid</u> <u>crystal device which includes</u> a first substrate (21b) having a first transparent electrode (22b), and a second substrate (21a) having a second transparent electrode (22a), liquid <u>crystal devices</u> (2) holding <u>and</u> a nematic liquid crystal layer (24) which is twist-oriented by an STN-twist angle between the first and second substrates; a first polarization board (1) provided for an outside of the first substrate; a twisted phase difference board (3) provided for the outside of the second substrate and having liquid crystal polymer layers (32a, 32b); and a second polarization board (4) provided for the outside of the twisted phase difference board; eharacterized in that, wherein:

the direction of the twist angle of molecule orientation of the twisted phase difference board (3) is reverse to the direction of the twisted orientation of the liquid crystal molecule of the liquid crystal devices (2), and the <u>absolute value of the</u> twist angle of the twisted phase difference board is smaller than the <u>absolute value of the</u> twist angle of the liquid crystal devices (2) by 10° to 40°.

- 2. (Original) A liquid crystal display apparatus as claimed in claim 1, wherein the STN-twist angle lies in the range of 180° to 270°.
- 3. (Currently amended) A liquid crystal display apparatus as claimed in claim 2, wherein

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an angle between the liquid crystal molecule-oriented direction of the alignment film (23a) of the second substrate and the molecule-oriented direction of a lower polymer (32b) of the liquid crystal polymer layer lies in the range of 80° to 90°;

an angle between an absorption axis of the first polarization board (1) and the liquid crystal molecule-oriented direction of the alignment film (23b) of the first substrate side lies in the range of 50° to 60°; and

an angle between the absorption axis of the second polarization board (4) and the molecule-oriented direction of an upper polymer (32a) of the liquid crystal polymer lies in the range of 30° to 40°.

4. (Currently amended) A liquid crystal display apparatus as claimed in claim 2, wherein

in the relationship between a retardation  $\Delta$ nd1 obtained by product of a double refractive index  $\Delta$ n1 of the nematic liquid crystal layer (24) and a thickness d1 of the liquid crystal layer, and a retardation  $\Delta$ nd2 obtained by product of the double refractive index  $\Delta$ n2 of the liquid crystal polymer layer and the thickness d2 of the liquid crystal polymer layer,

the retardation  $\Delta$ nd1 lies in the range of 0.7 to 0.9  $\mu$ m, and the difference  $\Delta$ nd1 -  $\Delta$ nd2 lies in the range of 0.1 to 0.3  $\mu$ m.

5. (Currently amended) A liquid crystal display apparatus as claimed in claim 2, wherein

an angle between the liquid crystal molecule-oriented direction of the alignment film (23a) of the second substrate and the molecule-oriented direction of a lower polymer (32b) of the liquid crystal polymer layer lies in the range of 80° to 90°;

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an angle between an absorption axis of the first polarization board (1) and the liquid crystal molecule-oriented direction of the alignment film (23b) of the first substrate side lies in the range of 50° to 60°;

an angle between the absorption axis of the second polarization board (4) and the molecule-oriented direction of an upper polymer (32a) of the liquid crystal polymer lies in the range of 30° to 40°; and

in the relationship between a retardation  $\Delta$ n1 obtained by product of a double refractive index  $\Delta$ n1 of the nematic liquid crystal layer (24) and a thickness d1 of the liquid crystal layer, and a retardation  $\Delta$ nd2 obtained by product of the double refractive index  $\Delta$ n2 of the liquid crystal polymer layer and the thickness d2 of the liquid crystal polymer layer, the retardation  $\Delta$ nd1 lies in the range of 0.7 to 0.9  $\mu$ m, and the difference  $\Delta$ nd1 -  $\Delta$ nd2 lies in the range of 0.1 to 0.3  $\mu$ m.

- 6. (Canceled)
- 7. (Currently amended) A liquid crystal display apparatus as claimed in claim 3 or 5, wherein the second polarization board (4) and the twisted phase difference board (3) structures a bonded unit; and the bond bonded unit is structured by superposing upon the second polarization board of the rolled film and the twisted phase difference board of the rolled film, and adhering them for the same roll-out direction, by utilizing the angle between the absorption axis of the second polarization board (4) and the molecule-oriented direction of the upper polymer (32a) of the liquid crystal polymer layer being in the range of 30° to 40°.
- 8. (Currently amended) A liquid crystal display apparatus as claimed in claim 7, wherein the bonding bonded unit is structured by superposing upon the rolled films each

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other and adhering them for the same direction, and by cutting it to a predetermined size.

- 9. (Original) A liquid crystal display apparatus as claimed in claim 2, wherein the liquid crystal polymer layer of the twisted phase difference board has a temperature compensating characteristic in a predetermined temperature range.
- 10. (Original) A liquid crystal display apparatus as claimed in claim 9, wherein the liquid crystal polymer layer has a temperature compensating characteristic in which the retardation ( $\Delta$ nd2) of the liquid crystal polymer layer is always smaller than the retardation ( $\Delta$ nd1) of the nematic liquid crystal layer in a predetermined temperature range.
- 11. (Original) A liquid crystal display apparatus as claimed in claim 10, wherein the predetermined temperature range lies in the range of 20° to 80°.
- 12. (Currently amended) A liquid crystal display apparatus comprising a first substrate (21b) having a first transparent electrode (22b) and a second substrate (21a) having a second transparent electrode (22a), a liquid crystal device devices (2) holding a nematic liquid crystal layer (24) which is twist-oriented by an STN-twist angle in the range of 180° to 270° between the first and second substrates; a first polarization board (1) provided for an outside of the first substrate; a twisted phase difference board (3) provided for the outside of the second substrate and having liquid crystal polymer layers (32a, 32b); and a second polarization board (4) provided for the outside of the twisted phase difference board; characterized in that, wherein:
- a) the direction of the twist angle of molecule orientation of the twisted phase difference board (3) is reverse to the direction of the twisted orientation of the liquid

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crystal molecule of the liquid crystal <u>device</u> devices (2), and the twist angle of the twisted phase difference board is smaller than the twist angle of the liquid crystal <u>device</u> devices (2) by 10° to 40°;

- b) an angle between the liquid crystal molecule-oriented direction of the alignment film (23a) of the second substrate and the molecule-oriented direction of a lower polymer (32b) of the liquid crystal polymer layer lies in the range of 80° to 90°;
- c) an angle between an absorption axis of the first polarization board (1) and the liquid crystal molecule-oriented direction of the alignment film (23b) of the first substrate side lies in the range of 50° to 60°;
- d) an angle between the absorption axis of the second polarization board (4) and the molecule- oriented direction of an upper polymer (32a) of the liquid crystal polymer lies in the range of 30° to 40°;
- e) in the relationship between a retardation  $\Delta$ nd1 obtained by product of a double refractive index  $\Delta$ n1 of the nematic liquid crystal layer (24) and a thickness d1 of the liquid crystal layer, and a retardation  $\Delta$ nd2 obtained by product of the double refractive index  $\Delta$ n2 of the liquid crystal polymer layer and the thickness d2 of the liquid crystal polymer layer,  $\Delta$ nd1 lies in the range of 0.7 to 0.9  $\mu$ m, and the difference  $\Delta$ nd1  $\Delta$ nd2 lies in the range of 0.1 to 0.3  $\mu$ m;
- f) the second polarization board (4) and the twisted phase difference board (3) structure a bonded unit; and the bond bonded unit is structured by superposing upon the second polarization board of the rolled film and the twisted phase difference board of the rolled film, adhering them for the same roll-out direction, and cutting it to a predetermined size; and

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g) the liquid crystal polymer layer has a temperature compensating characteristic in which the retardation ( $\Delta$ nd2) of the liquid crystal polymer layer is always smaller than the retardation ( $\Delta$ nd1) of the nematic liquid crystal layer in a predetermined temperature range.

13. (Currently amended) A method for manufacturing a liquid crystal display apparatus comprising a first substrate (21b) having a first transparent electrode (22b) and a second substrate (21a) having a second transparent electrode (22a), a liquid crystal device devices (2) holding a nematic liquid crystal layer (24) which is twist-oriented by an STN-twist angle in the range of 180° to 270° between the first and second substrates; a first polarization board (1) provided for an outside of the first substrate; a twisted phase difference board (3) provided for the outside of the second substrate and having liquid crystal polymer layers (32a, 32b); and a second polarization board (4) provided for the outside of the twisted phase difference board; wherein an angle between an absorption axis of the second polarization board (4) and a molecule-oriented direction of an upper polymer (32a) of the liquid crystal polymer layer lies in the range of 30° to 40°; characterized in that, wherein:

- a) the second polarization board (4) is structured by rolled film;
- b) the twisted phase difference board is structured by the rolled film;
- c) the roll-out direction of the rolled film of the second polarization board and the roll-out direction of the rolled film of the twisted phase difference board are arranged in the same direction by utilizing an angle being in the range of 30° to 40°;

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- d) the rolled film of the second polarization board and the rolled film of the twisted phase difference board are superposed upon each other and adhered them in the roll-out direction; and
- e) a bonding unit is made by cutting the rolled film in a predetermined size after adhesion and bonding the second polarization board and the twisted phase difference board.
- 14. (Currently amended) A liquid crystal display apparatus as claimed in claim 2, wherein a preferential viewing angle of the liquid crystal apparatus by an observer can be at any one of the following positions, based upon the convention of a clock-face: two-thirty one-thirty, four-thirty, seven-thirty, or ten-thirty o'clock.

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